

18FY6A

Twin Diode—High-Mu Triode

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC). 18 volts

Current $0.1 \pm 6\%$ amp

Warm-up time (Average). 20 sec

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^a</i>	
Triode grid to triode plate . .	1.8	1.8	μf
Triode grid to cathode and heater.	2.4	2.4	μf
Triode plate to cathode and heater.	0.22	2	μf
Plate of diode unit No.2 to triode grid.	0.2 max.	0.2 max.	μf

Characteristics, Class A₁ Amplifier (Triode Unit):

Plate Voltage 100 volts

Grid Voltage. -1 volt

Amplification Factor. 100

Plate Resistance (Approx.). 77000 ohms

Transconductance. 1300 μmhos

Plate Current 0.6 ma

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-1/8"

Maximum Seated Length 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip). . . 1-1/2" $\pm$ 3/32"

Diameter. 0.650" to 0.750"

Dimensional Outline See *General Section*

Bulb. T5-1/2

Base. Small-Button Miniature 7-Pin (JEDEC No. E7-1)

Basing Designation for BOTTOM VIEW. 7BT

Pin 1—Grid of

Triode Unit

Pin 2—Cathode of

Triode Unit

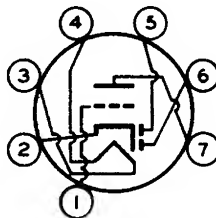
and Diode

Units No.1

and No.2

Pin 3—Heater

Pin 4—Heater



Pin 5—Plate of

Diode

Unit No.2

Pin 6—Plate of

Diode

Unit No.1

Pin 7—Plate of

Triode

Unit



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 1
7-61

18FY6A

TRIODE UNIT — AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 150 max. volts

GRID VOLTAGE:

Positive-bias value 0 max. volts

PLATE DISSIPATION 0.5 max. watt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with
respect to cathode. 100 max. volts

Heater positive with
respect to cathode. 100 max. volts

DIODE UNITS — Two

Maximum Ratings, Design-Maximum Values:

Values are for Each Unit

PLATE CURRENT 1 max. ma

Characteristics, Instantaneous Test Condition:

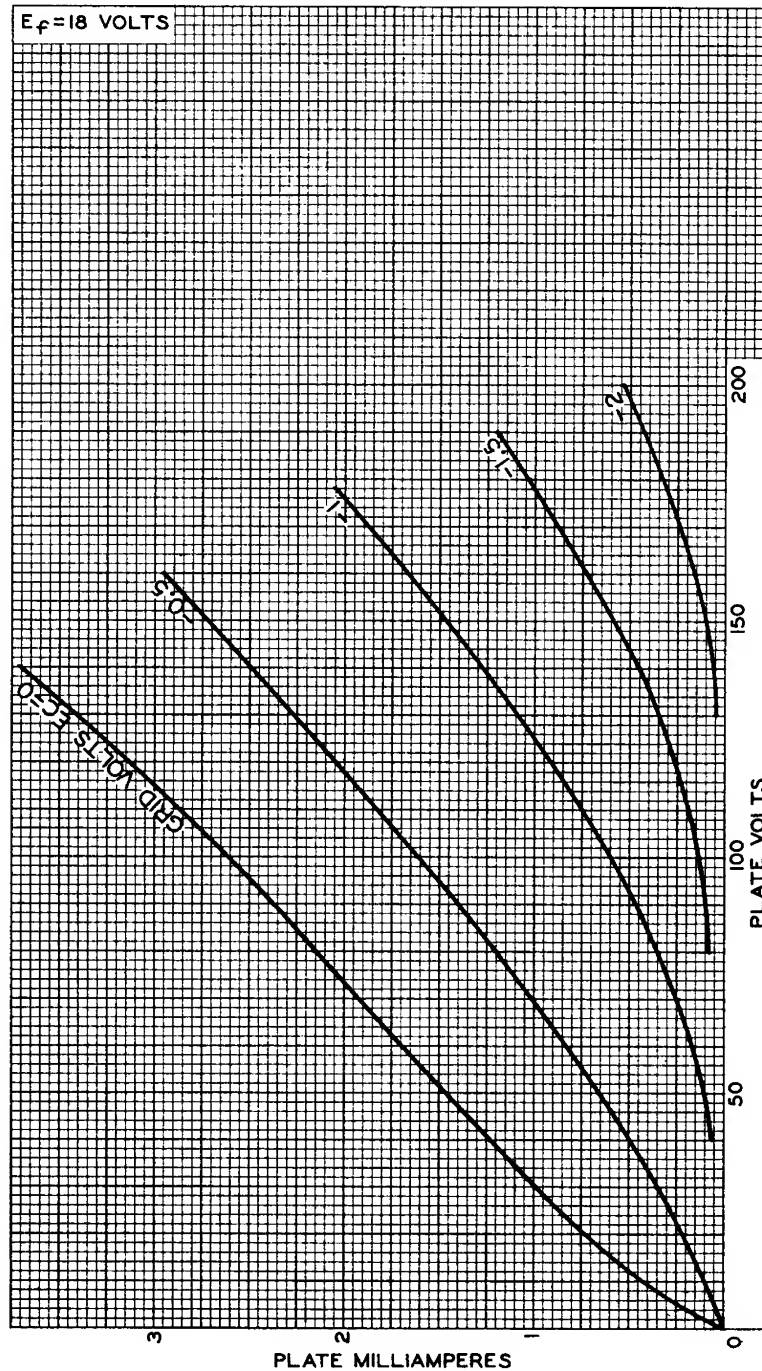
Plate Current for plate volts = 10. 2 ma

^a With external shield JEDEC No.316 connected to cathode.



18FY6A

AVERAGE PLATE CHARACTERISTICS Triode Unit



92CM-10775



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
7-61